Raster Key Sheets



Working with Raster Key Sheets

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RASTER KEY SHEETS

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RASTER KEY SHEETS

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Chapter 1

Downloading County Maps

The raster version ("CAL" format) can be individually downloaded from the Survey and Mapping Office web site at http://www11.myflorida.com/surveyingandmapping/cntylist.htm or through MicroStation or through MicroStation or AutoCAD as a raster reference attachment.

More information on the county maps is available at:

http://www11.myflorida.com/surveyingandmapping/geographic.htm - clips

Raster Manager Issues

There are a few issues with clipping and plotting key sheets with raster "CAL" maps on computers that have Raster Manager Loaded.

- 1) The rkeymap.ma delivered with the FDOT software will not work if any version of Raster Manager is installed.
- 2) Only the latest version (07.14.07.11) of Raster Manager will plot .cal files.
- 3) Maps created prior to installation of Raster Manager will require the clip boundary be redefined before it can be plotted. (Chapter 4)

In light of the problems, it is recommended that you only install Raster Manager if you are clipping sheets with raster images using GEOPAK clipping.

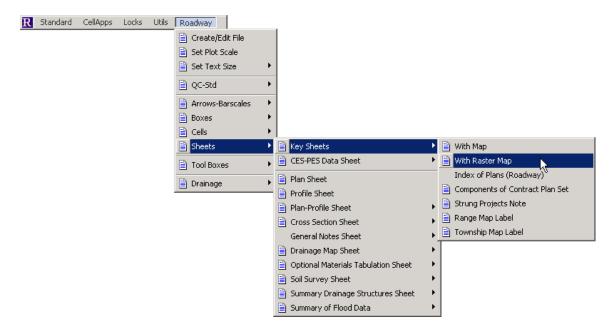
Creating Raster Key Sheet Using FDOT2002 Software

NOTE: This application will not work if Raster Manager is installed.

FDOT provides an MDL program to download and clip the raster map. This MDL (rkeymap.ma) is available in the FDOT2002 Software.

Steps required for creating a key sheet with a raster map using the FDOT2002 SiteMenu.

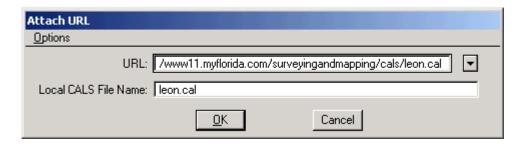
1) Open MicroStation and select Roadway > Sheets Key Sheets > With Raster Map from the SiteMenu



- 2) From the **Key Map Sheet Clip (Raster)** dialog box:
 - a) Select **Units** and **Scale** from the options given.
 - b) Select the **Key Map Type** desired.
 - c) Type the **DGN File Name** or select **New** to create a file.
 - d) Click **URL** to key-in the path to the county maps.



- 1) From the **Attach URL** dialog box:
 - a) Type the **path** and **county name** into the **URL** field. Notice some county names have a "v" at the end of their names. This <u>must</u> be included.
 - b) Type the Local CALS File Name.
 - c) Click OK.



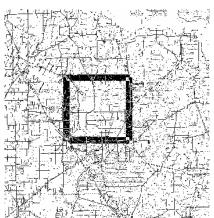
(The maps are located at: http://www11.myflorida.com/surveyingandmapping/cals/)

A complete list of the map names is located at: http://www11.myflorida.com/surveyingandmapping/cntylist.htm

- 1) From the **Key Map Sheet Clip (Raster)** dialog box:
 - a) Click **Define Clip Area**.

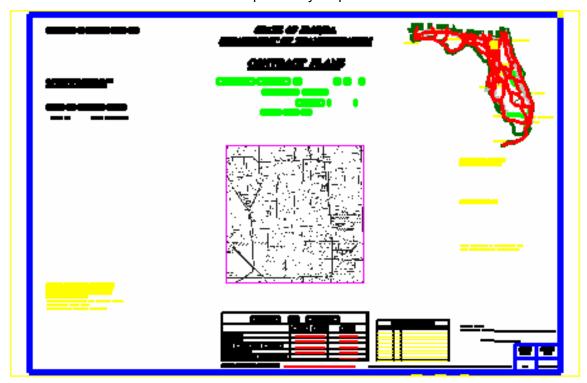


- b) Place a box around the area to be clipped.
- c) The **Clip Key Map** option, which was previously grayed out, is now available. Click **Clip Key Map** to create the Key Map.





Example of Key Map:

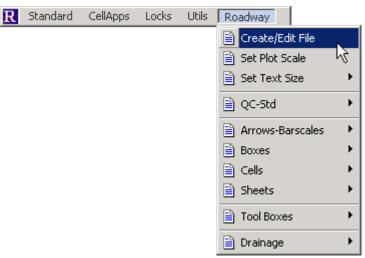


- 1) The FDOT sheet labeling utility, SheetInfo, will automatically load when the new sheet is clipped.
 - a) Enter Sheet Number.
 - b) Select the County from the drop-down.
 - c) If a project was defined at the MicroStation Manager Dialog the Financial Project ID will automatically be filled out, otherwise enter the information.
- d) Enter the Road Number. FDOT SheetInfo v1.0 (1/12/2003) Available Sheets Sheet Type e) Click Save to write data to the undefined ROADWAY PLANS file. (The project information will be written the sheet.) Sheet Number County Financial Project ID Road Number LEON 123456-1-12-12 वि Description FINANCIAL PROJECT ID <u>123456-1-12-12</u> (FEDERAL FUNDS) <u>LEON</u> COUNTY (STATE ROAD NO. 8___ View Sheet REFRESH Save | View All Sheets Add GeoPak Point Cancel Highlite Toggle Show Coordinates Close

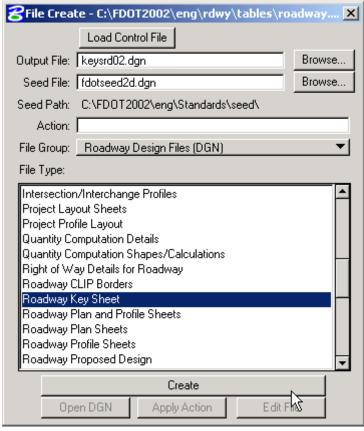
NOTE: Use this option if Raster Manager is installed.

Creating Raster Key Sheet Manually

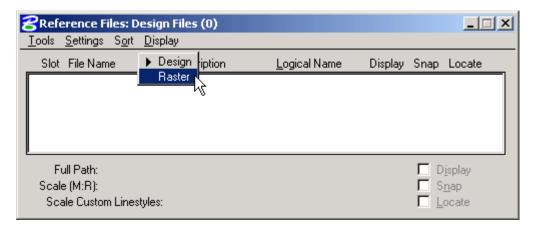
- 1) Start MicroStation and enter any existing design file.
- 2) From the SiteMenu select Roadway > Create/Edit File.



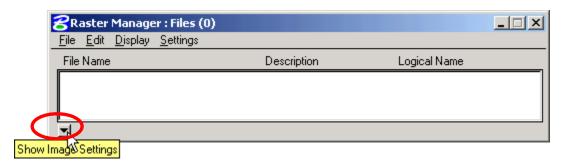
- Select Roadway Key Sheet from the list of available file types. This will automatically enter the next available file name in the output field and select the appropriate seed file.
- 4) Click **Create** to have the application create the new file.
- 5) Once the file has been created the Open DGN button becomes active. Click it to open the new file.
- 6) When the new file is open close the File Create dialog.



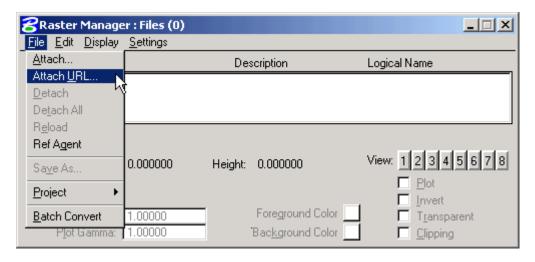
- 7) Select File > Reference from the menu.
- 8) On the Reference Files dialog select Display > Raster from the menu. This will open the Raster Manager dialog.



9) On the Raster Manager dialog it may be necessary to click on the Down Arrow to expand the dialog to show the image settings.

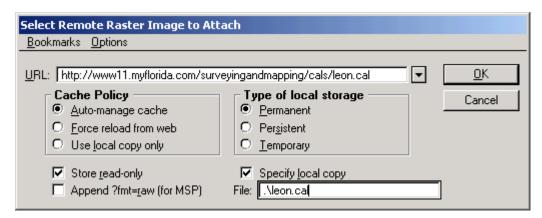


10) Select File > Attach URL from the Raster Manager menu.

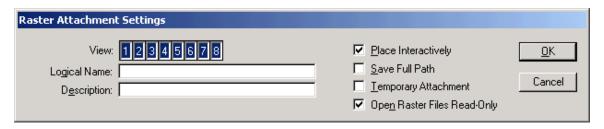


- 11) From the Select Remote Raster Image to Attach dialog box:
 - a) Enter the URL and File Name: http://www11.myflorida.com/surveyingandmapping/cals/COUNTY.cal ** **Note:** User must type **http://** to access this URL.
 - b) Check the Specify local copy check box.
 - In the File field enter the logical path .\ followed by the file name. (See example in dialog below) The .\ tells Raster Manager to create the local copy of the cal file in the current working directory
 - d) Click OK to accept.

NOTE: A complete list of the map names is located at: http://www11.myflorida.com/surveyingandmapping/cntylist.htm



- 12) The Raster Attachment Settings dialog will appear.
 - a) Check the Place Interactively and Open Raster Files Read-Only check boxes.
 - b) Un-check the Save Full Path and Temporary Attachment check boxes.
 - c) You can enter a Logical Name and Description but they are not required.
 - d) Click OK to continue.



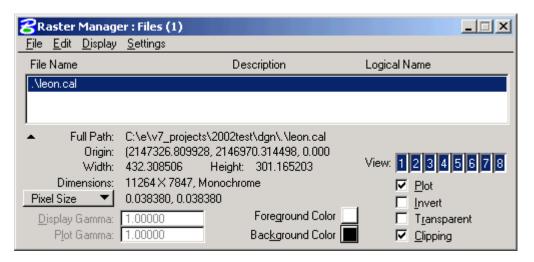
13) In the status bar, you will be prompted "Place Interactive > Enter Origin". Enter a data point to define the lower left corner of the map to be placed.



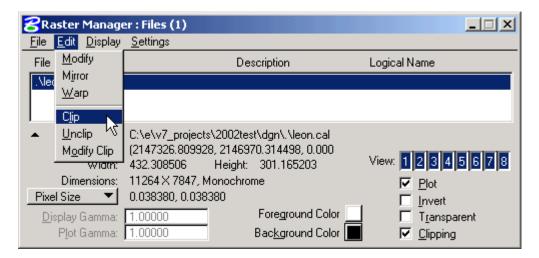
14) Next you will be prompted in the status bar to "Place Interactive > Enter Corner". Enter a data point to define the upper right corner of the map to be placed.



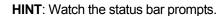
- 15) The map is placed and the Raster Manager dialog appears. Some of the setting in the Raster Manager dialog may need to be redefined. Check and set if necessary the following settings:
 - a) Foreground Color should be white (color 0).
 - b) Background Color should be black (color 255)
 - c) Check the Plot and Clipping check boxes.
 - d) Un-check the Invert and Transparent check boxes.



16) The desired area of the map must be clipped manually by clicking **Edit > Clip** from the Raster Manager menu.



17) The Raster Toolclip dialog will appear. Use this tool to define the area that should be displayed on the key sheet.







- a) Define the upper left corner as the first point.
- b) Define the lower right corner as the second point.
- c) Enter a third data point anywhere in the file to accept the new clip boundaries.

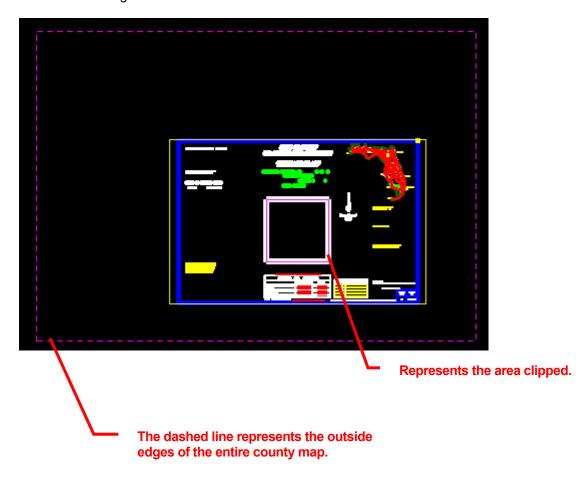
Now that the location map has been defined, a keysheet cell along with the corresponding cell and text can be placed.

Redefining Clip Boundaries

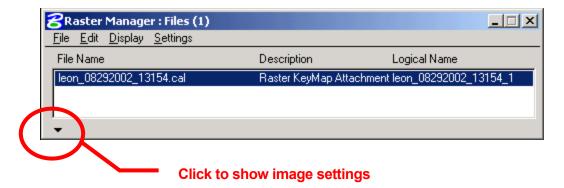
NOTE: Use this option if Raster Manager is installed.

Raster Manager does not recognize the clip boundaries defined by Image Manager so all raster key sheets created before Raster Manager was installed will need to have the map boundaries redefined.

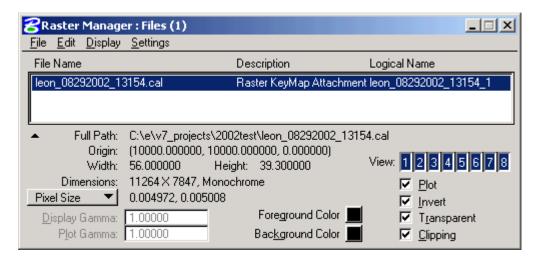
When a raster key sheet file, that was created before Raster Manager was installed, is opened after Raster Manager is installed



1) Select **File > Raster Manager** from the MicroStation menu to open the Raster Manager dialog shown below.

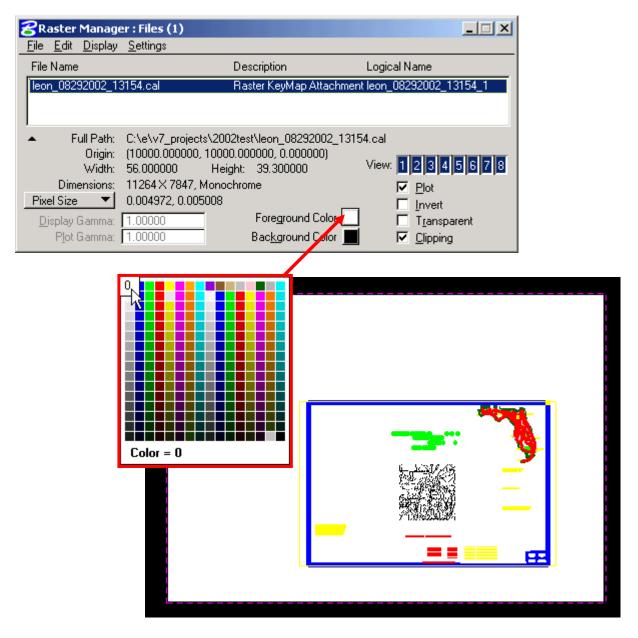


2) Click the down arrow to show the image settings as shown below.

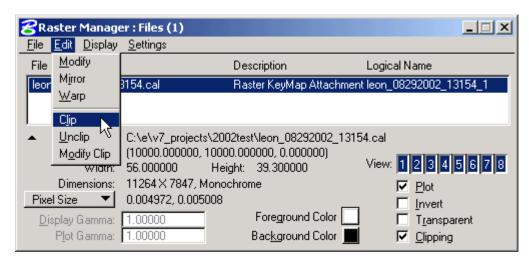


- 3) Update the settings as follows:
 - a) Change Foreground Color by clicking on the color sample to color 0 (white)
 - b) Check the Plot and Clipping check boxes.
 - c) Uncheck the Invert and Transparent check boxes

(The image below shows the appropriate settings)



4) Select **Edit > Clip** from the menu.

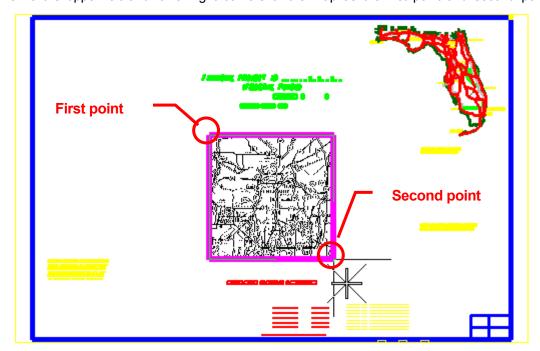


The Raster Toolclip dialog will appear and you will be prompted to enter the first point of the new clip boundaries.





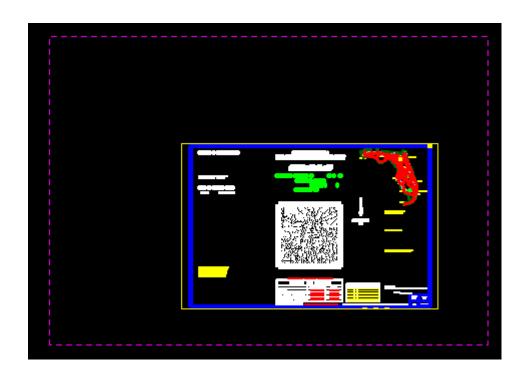
5) Define the upper left and lower right corners of the map as the first point and second point.

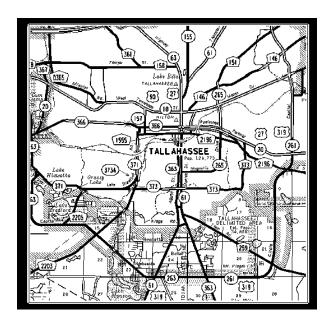


6) Enter a third data point anywhere in the file to accept the new clip boundaries.



The new boundary in now defined and the key map should be legible.





Plotting Issues

The installation of Raster Manager requires special/updated plot driver to plot correctly.

Using MicroStation's Print/Plot Command

To plot key sheets with raster maps:

- The boundaries of maps clipped before Raster Manager was installed need to be redefined properly as described in the previous chapter.
- Download RasterKey.plt from the Engineering/CADD Systems Office web site at: http://www11.myflorida.com/ecso/downloads/software/

Using MS Batch Plot (MSBP)

- The boundaries of maps clipped before Raster Manager was installed need to be redefined properly as described in the previous chapter.
- MS Batch Plot, version 3.2.2 or higher, is required for use with Raster Manager.